

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/892,403DATE: 09/12/97
TIME: 15:48:41

INPUT SET: S20308.raw

T3

This Raw Listing contains the General
Information Section and up to the first 5 pages.

ENTERED

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: Murphy, Brian R.
Collins, Peter L.
Whitehead, Stephen S.
Bukreyev, Alexander A.
Juhasz, Katalin

(ii) TITLE OF INVENTION: PRODUCTION OF ATTENUATED RESPIRATORY
SYNCYTIAL VIRUS VACCINES FROM CLONED NUCLEOTIDE SEQUENCES

(iii) NUMBER OF SEQUENCES: 14

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Townsend and Townsend and Crew LLP
(B) STREET: Two Embarcadero Center, 8th Floor
(C) CITY: San Francisco
(D) STATE: CA
(E) COUNTRY: USA
(F) ZIP: 94111-3834

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US
(B) FILING DATE: 15-JUL-1997
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 60/047,634
(B) FILING DATE: 23-MAY-1997

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 60/046,141
(B) FILING DATE: 09-MAY-1997

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 60/021,773
(B) FILING DATE: 15-JUL-1996

--> OK

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/892,403DATE: 09/12/97
TIME: 15:48:44

INPUT SET: S20308.raw

47 (viii) ATTORNEY/AGENT INFORMATION:
48 (A) NAME: Parmelee, Steven W.
49 (B) REGISTRATION NUMBER: 31,990
50 (C) REFERENCE/DOCKET NUMBER: 17634-000510
51
52 (ix) TELECOMMUNICATION INFORMATION:
53 (A) TELEPHONE: 206-467-9600
54 (B) TELEFAX: 415-576-0300
55
56
57 (2) INFORMATION FOR SEQ ID NO:1:
58
59 (i) SEQUENCE CHARACTERISTICS:
60 (A) LENGTH: 15223 base pairs
61 (B) TYPE: nucleic acid
62 (C) STRANDEDNESS: single
63 (D) TOPOLOGY: linear
64
65 (ii) MOLECULE TYPE: cDNA
66
67
68
69 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
70
71 ACGCGAAAAA ATGCGTACAA CAAACTTGCA TAAACCAAAA AAATGGGGCA AATAAGAATT 60
72
73 TGATAAGTAC CACTTAAATT TAACTCCCTT GGTAGAGAT GGCAGCAAT TCATTGAGTA 120
74
75 TGATAAAAGT TAGATTACAA AATTTGTTTG ACAATGATGA AGTAGCATTG TTAAAAATAA 180
76
77 CATGCTATAC TGATAAATTA ATACATTTAA CTAATGCTTT GGCTAAGGCA GTGATACATA 240
78
79 CAATCAAATT GAATGGCATT GTGTTTGTGC ATGTTATTAC AAGTAGTGAT ATTTGCCCTA 300
80
81 ATAATAATAT TGTAGTAAAA TCCAATTTCA CAACAATGCC AGTACTACAA AATGGAGGTT 360
82
83 ATATATGGGA AATGATGGAA TTAACACATT GCTCTCAACC TAATGGTCTA CTAGATGACA 420
84
85 ATTGTGAAAT TAAATTCTCC AAAAAACTAA GTGATTCAAC AATGACCAAT TATATGAATC 480
86
87 AATTATCTGA ATTACTTGGA TTTGATCTTA ATCCATAAAT TATAATTAAT ATCAACTAGC 540
88
89 AAATCAATGT CACTAACACC ATTAGTTAAT ATAAAACTTA ACAGAAGACA AAAATGGGGC 600
90
91 AAATAAATCA ATTCAGCCAA CCAACCATG GACACAACCC ACAATGATAA TACACCACAA 660
92
93 AGACTGATGA TCACAGACAT GAGACCGTTG TCACTTGAGA CCATAATAAC ATCACTAACC 720
94
95 AGAGACATCA TAACACACAA ATTTATATAC TTGATAAATC ATGAATGCAT AGTGAGAAAA 780
96
97 CTTGATGAAA AGCAGGCCAC ATTTACATTC CTGGTCAACT ATGAAATGAA ACTATTACAC 840
98
99 AAAGTAGGAA GCACTAAATA TAAAAAATAT ACTGAATACA ACACAAAATA TGGCACTTTC 900

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/892,403DATE: 09/12/97
TIME: 15:48:48

INPUT SET: S20308.raw

100							
101	CCTATGCCAA	TATTCATCAA	TCATGATGGG	TTCTTAGAAT	GCATTGGGCAT	TAAGCCTACA	960
102							
103	AAGCATACTC	CCATAATATA	CAAGTATGAT	CTCAATCCAT	AAATTTCAAC	ACAATATTCA	1020
104							
105	CACAATCTAA	AACAACAAC	CTATGCATAA	CTATACTCCA	TAGTCCAGAT	GGAGCCTGAA	1080
106							
107	AATTATAGTA	ATTTAAAACT	TAAGGAGAGA	TATAAGATAG	AAGATGGGGC	AAATACAACC	1140
108							
109	ATGGCTCTTA	GCAAAGTCAA	GTTGAATGAT	ACACTCAACA	AAGATCAACT	TCTGTCATCC	1200
110							
111	AGCAAATACA	CCATCCAACG	GAGCACAGGA	GATAGTATTG	ATACTCCTAA	TTATGATGTG	1260
112							
113	CAGAAACACA	TCAATAAGTT	ATGTGGCATG	TTATTAATCA	CAGAAGATGC	TAATCATAAA	1320
114							
115	TTCACTGGGT	TAATAGGTAT	GTTATATGCG	ATGTCTAGGT	TAGGAAGAGA	AGACACCATA	1380
116							
117	AAAATACTCA	GAGATGCGGG	ATATCATGTA	AAAGCAAATG	GAGTAGATGT	AACAACACAT	1440
118							
119	CGTCAAGACA	TTAATGGAAA	AGAAATGAAA	TTTGAAGTGT	TAACATTGGC	AAGCTTAACA	1500
120							
121	ACTGAAATTC	AAATCAACAT	TGAGATAGAA	TCTAGAAAAT	CCTACAAAAA	AATGCTAAAA	1560
122							
123	GAAATGGGAG	AGGTAGCTCC	AGAATACAGG	CATGACTCTC	CTGATTGTGG	GATGATAATA	1620
124							
125	TTATGTATAG	CAGCATTAGT	AATAACTAAA	TTAGCAGCAG	GGGACAGATC	TGGTCTTACA	1680
126							
127	GCCGTGATTA	GGAGAGCTAA	TAATGTCCTA	AAAAATGAAA	TGAAACGTTA	CAAAGGCTTA	1740
128							
129	CTACCCAAGG	ACATAGCCAA	CAGCTTCTAT	GAAGTGTTTG	AAAAACATCC	CCACTTTATA	1800
130							
131	GATGTTTTTG	TTCATTTTGG	TATAGCACAA	TCTTCTACCA	GAGGTGGCAG	TAGAGTTGAA	1860
132							
133	GGGATTTTTG	CAGGATTGTT	TATGAATGCC	TATGGTGCAG	GGCAAGTGAT	GTTACGGTGG	1920
134							
135	GGAGTCTTAG	CAAAATCAGT	TAAAAATATT	ATGTTAGGAC	ATGCTAGTGT	GCAAGCAGAA	1980
136							
137	ATGGAACAAG	TTGTTGAGGT	TTATGAATAT	GCCCCAAAAT	TGGGTGGTGA	AGCAGGATTC	2040
138							
139	TACCATATAT	TGAACAACCC	AAAAGCATCA	TTATTATCTT	TGACTCAATT	TCCTCACTTC	2100
140							
141	TCCAGTGTAG	TATTAGGCAA	TGCTGCTGGC	CTAGGCATAA	TGGGAGAGTA	CAGAGGTACA	2160
142							
143	CCGAGGAATC	AAGATCTATA	TGATGCAGCA	AAGGCATATG	CTGAACAAC	CAAAGAAAAAT	2220
144							
145	GGTGTGATTA	ACTACAGTGT	ACTAGACTTG	ACAGCAGAAG	AACTAGAGGC	TATCAAACAT	2280
146							
147	CAGCTTAATC	CAAAGATAA	TGATGTAGAG	CTTTGAGTTA	ATAAAAAATG	GGGCAAATAA	2340
148							
149	ATCATCATGG	AAAAGTTTGC	TCCTGAATTC	CATGGAGAAG	ATGCAAAACA	CAGGGCTACT	2400
150							
151	AAATTCCTAG	AATCAATAAA	GGGCAAATTC	ACATCACCCA	AAGATCCCAA	GAAAAAAGAT	2460
152							

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/892,403DATE: 09/12/97
TIME: 15:48:51

INPUT SET: S20308.raw

153	AGTATCATAT	CTGTCAACTC	AATAGATATA	GAAGTAACCA	AAGAAAGCCC	TATAACATCA	2520
154							
155	AATTCAACTA	TTATCAACCC	AACAAATGAG	ACAGATGATA	CTGCAGGGAA	CAAGCCCAAT	2580
156							
157	TATCAAAGAA	AACCTCTAGT	AAGTTTCAAA	GAAGACCCTA	CACCAAGTGA	TAATCCCTTT	2640
158							
159	TCTAAACTAT	ACAAAAGAAAC	CATAGAAAACA	TTTGATAACA	ATGAAGAAGA	ATCCAGCTAT	2700
160							
161	TCATACGAAG	AAATAAATGA	TCAGACAAAC	GATAATATAA	CAGCAAGATT	AGATAGGATT	2760
162							
163	GATGAAAAAT	TAAGTGAAAT	ACTAGGAATG	CTTCACACAT	TAGTAGTGGC	AAGTGCAGGA	2820
164							
165	CCTACATCTG	CTCGGGATGG	TATAAGAGAT	GCCATGGTTG	GTTTAAGAGA	AGAAATGATA	2880
166							
167	GAAAAAATCA	GAACTGAAGC	ATTAATGACC	AATGACAGAT	TAGAAGCTAT	GGCAAGACTC	2940
168							
169	AGGAATGAGG	AAAGTGAAAA	GATGGCAAAA	GACACATCAG	ATGAAGTGTC	TCTCAATCCA	3000
170							
171	ACATCAGAGA	AATTGAACAA	CCTATTGGAA	GGGAATGATA	GTGACAATGA	TCTATCACTT	3060
172							
173	GAAGATTTCT	GATTAGTTAC	CAATCTTCAC	ATCAACACAC	AATACCAACA	GAAGACCAAC	3120
174							
175	AAACTAACCA	ACCCAATCAT	CCAACCAAAC	ATCCATCCGC	CAATCAGCCA	AACAGCCAAC	3180
176							
177	AAAACAACCA	GCCAATCCAA	AACTAACCAC	CCGGAAAAAA	TCTATAATAT	AGTTACAAAA	3240
178							
179	AAAGGAAAGG	GTGGGGCAAA	TATGGAAACA	TACGTGAACA	AGCTTCACGA	AGGCTCCACA	3300
180							
181	TACACAGCTG	CTGTTCAATA	CAATGTCTTA	GAAAAAGACG	ATGACCCTGC	ATCACTTACA	3360
182							
183	ATATGGGTGC	CCATGTTCCA	ATCATCTATG	CCAGCAGATT	TACTTATAAA	AGAACTAGCT	3420
184							
185	AATGTCAACA	TACTAGTGAA	ACAAATATCC	ACACCCAAGG	GACCTTCACT	AAGAGTCATG	3480
186							
187	ATAAACTCAA	GAAGTGCAGT	GCTAGCACAA	ATGCCCAGCA	AATTTACCAT	ATGCGCTAAT	3540
188							
189	GTGTCCTTGG	ATGAAAGAAG	CAAACTAGCA	TATGATGTAA	CCACACCCTG	TGAAATCAAG	3600
190							
191	GCATGTAGTC	TAACATGCCT	AAAATCAAAA	AATATGTTGA	CTACAGTTAA	AGATCTCACT	3660
192							
193	ATGAAGACAC	TCAACCCTAC	ACATGATATT	ATTGCTTTAT	GTGAATTTGA	AAACATAGTA	3720
194							
195	ACATCAAAAA	AAGTCATAAT	ACCAACATAC	CTAAGATCCA	TCAGTGTGAG	AAATAAAGAT	3780
196							
197	CTGAACACAC	TTGAAAATAT	AACAACCACT	GAATTCAAAA	ATGCTATCAC	AAATGCAAAA	3840
198							
199	ATCATCCCTT	ACTCAGGATT	ACTATTAGTC	ATCACAGTGA	CTGA GA AACAA	AGGAGCATTC	3900
200							
201	AAATACATAA	AGCCACAAAAG	TCAATTCATA	GTAGATCTTG	AGAGCTTACCT	AGAAAAAGAA	3960
202							
203	AGTATATATT	ATGTTACCAC	AAATTGGAAG	CACACAGCTA	CACGATTTGC	AATCAAACCC	4020
204							
205	ATGGAAGATT	AACCTTTTTTC	CTCTACATCA	GTGTGTTAAT	TCATACAAAC	TTTCTACCTA	4080

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/892,403DATE: 09/12/97
TIME: 15:48:54

INPUT SET: S20308.raw

206							
207	CATTCTTCAC	TTCACCATCA	CAATCACAAA	CACTCTGTGG	TTCAACCAAT	CAAACAAAAC	4140
208							
209	TTATCTGAAG	TCCCAGATCA	TCCCAAGTCA	TTGTTTATCA	GATCTAGTAC	TCAAATAAGT	4200
210							
211	TAATAAAAAA	TATACACATG	GGGCAAATAA	TCATTGGAGG	AAATCCAAC	AATCACAATA	4260
212							
213	TCTGTTAACA	TAGACAAGTC	CACACACCAT	ACAGAATCAA	CCAATGGAAA	ATACATCCAT	4320
214							
215	AACAATAGAA	TTCTCAAGCA	AATTCTGGCC	TTACTTTACA	CTAATACACA	TGATCACAAC	4380
216							
217	AATAATCTCT	TTGCTAATCA	TAATCTCCAT	CATGATTGCA	ATACTAAACA	AACTTTGTGA	4440
218							
219	ATATAACGTA	TTCCATAACA	AAACCTTTGA	GTTACCAAGA	GCTCGAGTCA	ACACATAGCA	4500
220							
221	TTCATCAATC	CAACAGCCCA	AAACAGTAAC	CTTGCATTTA	AAAATGAACA	ACCCCTACCT	4560
222							
223	CTTTACAACA	CCTCATTAAC	ATCCCACCAT	GCAAACCACT	ATCCATACTA	TAAAGTAGTT	4620
224							
225	AATTAAAAAT	AGTCATAACA	ATGAACTAGG	ATATCAAGAC	TAACAATAAC	ATTGGGGCAA	4680
226							
227	ATGCAAAACAT	GTCCAAAAAC	AAGGACCAAC	GCACCGCTAA	GACATTAGAA	AGGACCTGGG	4740
228							
229	ACACTCTCAA	TCATTTATTA	TTCATATCAT	CGTGCTTATA	TAAGTTAAAT	CTTAAATCTG	4800
230							
231	TAGCACAAAT	CACATTATCC	ATTCTGGCAA	TGATAATCTC	AACTTCACTT	ATAATTGCAG	4860
232							
233	CCATCATATT	CATAGCCTCG	GCAAACCACA	AAGTCACACC	AACAACGCA	ATCATAAAG	4920
234							
235	ATGCAACAAG	CCAGATCAAG	AACACAACCC	CAACATACCT	CACCCAGAAT	CCTCAGCTTG	4980
236							
237	GAATCAGTCC	CTCTAATCCG	TCTGAAATTA	CATCACAAAT	CACCACCATA	CTAGCTTCAA	5040
238							
239	CAACACCAGG	AGTCAAGTCA	ACCCTGCAAT	CCACAACAGT	CAAGACCAAA	AACACAACAA	5100
240							
241	CAACTCAAAC	ACAACCCAGC	AAGCCCACCA	CAAAACAACG	CCAAAACAAA	CCACCAAGCA	5160
242							
243	AACCCAATAA	TGATTTTCAC	TTTGAAGTGT	TCAACTTTGT	ACCCTGCAGC	ATATGCAGCA	5220
244							
245	ACAATCCAAC	CTGCTGGGCT	ATCTGCAAAA	GAATACCAAA	CAAAAAACCA	GGAAAGAAAA	5280
246							
247	CCACTACCAA	GCCCACAAAA	AAACCAACCC	TCAAGACAAC	CAAAAAAGAT	CCCAAACCTC	5340
248							
249	AAACCACTAA	ATCAAAGGAA	GTACCCACCA	CCAAGCCCAC	AGAAGAGCCA	ACCATCAACA	5400
250							
251	CCACCAAAAC	AAACATCATA	ACTACACTAC	TCACCTCCAA	CACCACAGGA	AATCCAGAAC	5460
252							
253	TCACAAGTCA	AATGGAAACC	TTCCACTCAA	CTTCCTCCGA	AGGCAATCCA	AGCCCTTCTC	5520
254							
255	AAGTCTCTAC	AACATCCGAG	TACCCATCAC	AACCTTCATC	TCCACCCAAC	ACACCACGCC	5580
256							
257	AGTAGTTACT	TAAAAACATA	TTATCACAAA	AGGCCTTGAC	CAACTTAAAC	AGAATCAAAA	5640
258							

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/892,403

DATE: 09/12/97
TIME: 15:48:59

INPUT SET: S20308.raw

Line	Error	Original Text
31	Wrong application Serial Number	(A) APPLICATION NUMBER: US